

SOUTH COAST CONCRETE PUMPING LTD RISK ASSESSMENT

LOCATION		TASK / ACTIVITY			RECORD NO.		DATE OF ASSESSMENT				
							January 2015				
CONSTRUCTION & REFURBISHMENT SITES THROUGHOUT THE UK		OPERATION OF TRUCK MOUNTED CONCRETE PUMP			RA01		DATE ASSESSMENT REVIEWED				
							28/01/2015				
ASSESSMENT PREPARED BY				REVIEWED AND APPROVED BY				DATE NEXT REVIEW IS DUE			
J ELLIS-BEAUMONTS JELF MANAGEMENT LTD				A SPRAKE-COMMERCIAL MANAGER				January 2016			
HAZARD CATEGORY	DETAILS OF HAZARD	PERSONS / PLANT AT RISK	S	P	RISK	CURRENT CONTROL MEASURES	S	P	RISK	FURTHER CONTROLS NEEDED?	
1.Physical	Collapse or overturning of pump due to poor ground conditions leading to serious crushing injuries or fatality	Operator, others in the area of work	5	3	15	Pump set up only at agreed locations as directed by site management or their agent. Principal contractor to confirm ground can withstand advised rigger loadings. Additional suitable supports may be required.	5	2	10	Use of plates or sleepers to spread rigger loads where required	
2.Physical	Overturning of pump due to instability arising from incorrect setting up-potential for serious injuries or fatality	Operator, others in the area of work	5	3	15	Operator ensures all riggers fully extended and pump set up in accordance with manufacturer's instructions	5	2	10		
3.Physical	Collapse of placing boom due to failures of lifting hydraulics-potential for serious injury or fatality	Operator, other in the area of work	5	3	15	Regular servicing & maintenance. Lock valves fitted to hydraulic rams to limit movement in event of failure	5	2	10		
4.Physical	Collapse or failure of lifting components of the pump-potential for serious injury or fatality	Operator, others in the area of work	5	3	15	Thorough examination & inspection undertaken by competent person every 12 months in accordance with LOLER requirements. Regular servicing & maintenance	5	2	10	Visual pre-use checks to be undertaken	

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5.Physical	Collision with pedestrians when reversing pump on site	Pedestrians on site	5	4	20	Reversing bleepers fitted to pump which are automatically activated when reversing. Suitable reversing aids(mirrors, and cameras where fitted) in place	5	2	10	Trained banksman to oversee all reversing on site. High visibility clothing worn by all pedestrians
6.Physical	Collision with pedestrians when pump accessing/ egressing site or undertaking manoeuvres-serious injuries or fatality	Pedestrians on site	5	3	15	Site speed limits strictly observed. Use of designated vehicle routes only. High visibility clothing worn by all pedestrians	5	2	10	
7.Physical	Collision of ready-mix wagons supplying pump with pedestrians-serious injuries or fatality	Pedestrians on site	5	3	15	Site speed limits strictly observed. Use of designated vehicle routes only. Banking of all deliveries	5	2	10	
8.Physical	Impact of boom/hose with persons on site leading to serious injuries	Persons in area of operation	4	3	12	Pump operator to continually monitor folding/unfolding operations from safe vantage point via use of remote control or cable remote unit	4	2	8	Segregation of work area to prevent unauthorised access
9.Physical	Entrapment/entanglement with moving/rotating parts of the pump-potential for serious injury	Operator, others in work area	4	3	12	All moving parts fully enclosed. Interlock systems in place to prevent contact during cleaning/ maintenance	4	1	4	
10.Physical	Improper/incorrect use of pump leading to serious injuries	Persons in area of operation	4	3	12	All pump operator's suitably competent (CPCS to appropriate level).Persons placing the concrete fully briefed in risk assessments. Suitable barriers & signage in place to prevent unauthorised access	4	2	8	
11.Physical	Injury to pedestrians and property on site from concrete spillage and splatter from upper floors during placement	Persons in or beneath area being concreted, property	3	3	9	Suitable segregation of area where concrete being poured. Suitable shuttering/edge protection to contain any spillage	3	2	6	
12.Physical	Blockages at start or re-start of pumping operations leading to serious impact injuries from suspended(off the boom) hose	Persons in area of operation	4	3	12	Use of single –ended hoses only. All operatives instructed to remain clear of suspended hose at start/re-start of pumping operations.	2	3	6	Use of double/steel collared hoses prohibited for off the boom operations
13.Physical	Bursting of hoses under pressure leading to impact injuries from ejected concrete	Persons in area of operation	4	3	12	Use of hoses/clips of sufficient safety rating. Regular servicing & maintenance. Defective or worn components removed immediately from use & replaced	4	2	8	


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14.Physical	Sudden ejection of air or concrete from pipe leading to serious injury	Persons in area of operation	4	3	12	Pipe jointing seals regularly maintained and cleaned. Pump operator or nominated person monitor hopper levels to ensure air not pumped into system	4	2	8	Level sensors fitted to newer pumps
15.Physical	Fall from height from pump deck leading to serious injury or fatality	Crane pump operator	5	3	15	Restricted access to pump deck area for short duration work only. Harness & restraint lanyard worn for longer duration work or hand rails to be fitted.	5	2	10	
16.Physical	Release of pressurized water/air/sponge ball/concrete when cleaning pipeline with compressed air-possible moderate injury	Crane pump operator, others in the vicinity	3	3	9	Specific safe system of work in place for pump operator. Suitable segregation of persons in place at end of pipeline during cleaning operation	3	2	6	
17.Physical	Release of pressurized concrete when dismantling pipeline leading to serious injury	Crane pump operator	4	3	12	Pump operator instructed to ensure pipeline fully de-pressurized before removing jointing clips. Suitable PPE provided & worn	3	2	6	
18.Health	Contact with wet concrete/grout leading to skin damage, dermatitis, concrete burns, eye damage	All those involved in pumping operation	4	3	12	COSHH assessments undertaken for all potentially hazardous materials used and control measures put in place. Suitable PPE (long-sleeve clothing, full length trousers, protective gloves and safety glasses/goggles) provided & worn at all time. Suitable washing facilities provided on site	3	2	6	
19.Physical	Sudden release of concrete under pressure due to blockages within pipeline leading to serious impact injuries	Persons in area of concreting operation	4	3	12	Suitable specified pump mix used. Circulation of any standing concrete in hopper/boom/pipeline by pump operator. Avoidance of kinking within pipeline. Monitoring of concrete quality. Suitable management of delivery times to minimise "standing" of concrete	4	2	8	
20.Physical	Trips and falls over pipework leading to possible bruising, sprains and fractures	Persons in area of concreting operation	4	3	12	Pipework located away from pedestrian walkways and access routes wherever possible. Provision of suitable walkover ramps where required.	4	2	8	

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P:Likelihood		S:Severity		R:Risk(P x S) - consider degree of possible injury and number affected
1	Unlikely	1	Minor	1 - 4 Low
2	Possible	2	Moderate	5 -15 Medium
3	Likely	3	Major	16 - 25 High
4	Probable	4	Serious	
5	Certain	5	Catastrophic	

ASSESSMENT PREPARED BY:		ASSESSMENT APPROVED BY:	
Name:	John Ellis	Name:	Adrian Sprake
Position:	Health & Safety Consultant	Position:	Commercial Manager
Signature:		Signature:	
Date:	16 th January 2015	Date:	January 2015
<p>I acknowledge that I have been taken through the hazards highlighted by this assessment (RA01) and will adhere to the controls that have been explained to me.</p>			
Employee name:		Date:	
Employee signature:			